

Amendments to the Claims: This listing of claims will replace all prior versions, and listings, of claims in the application

Listing of Claims

1. (Currently Amended) A system for wirelessly collecting vehicle data for a vehicle and ~~for using collected vehicle data to determine~~ provide vehicle service recommendations or vehicle replacement part recommendations for the vehicle, said system comprising:

an in-vehicle device to collect the vehicle data, and interconnected with ~~a~~ the vehicle;

an analysis device to analyze the collected vehicle data and to determine vehicle service recommendations or vehicle replacement part recommendations for the vehicle according to the collected vehicle data; and

a communication interface device ~~for data communicating wirelessly with said in-vehicle device, said communication interface device having a data communication connection with~~ the analysis device ~~a data processing resource, said communication interface device is an internet appliance;~~

wherein said in-vehicle device ~~by way of~~ via said communication interface device communicates with said ~~data processing resource~~ analysis device.

2. (Currently Amended) The system in accordance with claim 1, further comprising:

a global network data processing resource,

wherein said ~~data processing resources~~ analysis device is ~~a~~ the global network data processing resource.

3. (Currently Amended) The system in accordance with claim 1, wherein said in-vehicle device further comprises:

a vehicle monitor and metering interface for measuring and monitoring ~~said~~-vehicle telemetry data.

4. (Currently Amended) The system in accordance with claim 3, wherein said vehicle monitor and metering interface further comprises at least one of the following:

an accelerometer for measuring or monitoring ~~said~~-vehicle acceleration changes;

a ~~tachometer-metering device~~ for measuring or monitoring ~~asaid~~ motor revolutions-per-minute/vehicle velocity; or

an odometer for measuring or monitoring ~~asaid~~ vehicle travel distance.

5. (Currently Amended) The system in accordance with claim 1, wherein said vehicle includes a vehicle radio, said in-vehicle device further comprises:

a vehicle radio interface for interconnecting said in-vehicle device to said vehicle radio.

6. (Currently Amended) The system in accordance with claim 5, wherein said vehicle radio, by way of said vehicle radio interface, ~~data~~-communicates with global network based data processing resources.

7. (Currently Amended) The system in accordance with claim 5, wherein said vehicle radio, by way of said vehicle radio interface, receives satellite location information data communication ~~from satellite~~.

8. (Currently Amended) The system in accordance with claim 1, wherein said in-vehicle device further comprises:

an alarm system interface for monitoring ~~said~~-vehicle security status.

9. (Currently Amended) The system in accordance with claim 1, wherein said in-vehicle device is configured for communication with a personal data assistant device, said in-vehicle device further comprises:

a personal data assistant interface for data communicating between said in-vehicle device and thea personal data assistant device.

10. (Currently Amended) The system in accordance with claim 9, wherein said personal data assistant interface supports at least one of the following frequencies, protocols ~~and~~ or and/or standards: WIRELESS APPLICATION PROTOCOL, BLUE TOOTH, WCDMA, GSM, CDMA, CDPD, TDMA, 2G type compliant, 3G type compliant, spread spectrum, a single ~~frequency~~ frequency transceiver, a dual frequency transceiver, INTEL PRO/WIRELESS 5000 LAN, IEEE 802.11, IEEE 802.11A, or IEEE 802.11B.

11. (Currently Amended) The system in accordance with claim 1, wherein said in-vehicle device further comprises:

a user interface including a display, and a microphone for enabling a user to issue voice commands to said in-vehicle device.

12. (Currently Amended) The system in accordance with claim 11, wherein said vehicle includes a vehicle passenger compartment area and said in-vehicle device is located external to said vehicle passenger compartment area and said user interface is electronically connected with and separate from ~~electrically tethered to~~ said in-vehicle device ,to allow ~~such that said user can to~~ interact with said user interface from within said vehicle passenger compartment area.

13. (Currently Amended) The system in accordance with claim 1, wherein said in-vehicle device further comprises:

a global positioning receiver interface for determining a~~the~~ geographic location of said in-vehicle device.

14. (Original) The system in accordance with claim 1, wherein said in-vehicle device is retrofitted into said vehicle.

15. (Original) The system in accordance with claim 1, wherein said in-vehicle device further comprises a wireless transceiver.

16. (Currently Amended) The system in accordance with claim 15, wherein, said wireless transceiver is at least one of the following: a wireless modem, a wireless phone, a cellular phone, a CDPD device, a CDMA device, a WCDMA device, a GSM device, a TDMA device, a 2G type compliant device, a 3G type compliant device, an INTEL PRO/WIRELESS 5000 LAN adapter device, an IEEE 802.11 device, an IEEE 802.11A device, an IEEE 802.11B device, a spread spectrum transceiver, a single frequency transceiver, a dual frequency transceiver, a programmable storage device, a personal data assistant, a pager, or a pocket PC.

17. (Currently Amended) The system in accordance with claim 16, wherein, said programmable storage device is at least one of the following: a pocket PC, a personal data assistant, a wireless phone, a pager, an RFID device, a smart card, a magnetic card, a key fob, a key chain, or a vehicle key.

18. (Currently Amended) The system in accordance with claim 1, wherein wireless data communication between said in-vehicle device and said communication interface device utilizes at least one of the following communication frequencies, protocols ~~and or~~ and/or standards: WIRELESS APPLICATION PROTOCOL, BLUE TOOTH, WCDMA, GSM, TDMA, CDMA, CDPD, 2G_type compliant, 3G type compliant, a single frequency transceiver, a dual frequency transceiver, INTEL PRO/WIRELESS 5000 LAN, IEEE 802.11, IEEE 802.11A, or IEEE 802.11B.

19. (Currently Amended) A system for wirelessly collecting vehicle data for a vehicle to provide to a user and for using collected vehicle data to determine vehicle service recommendations and or and/or vehicle replacement part recommendations for the vehicle, the vehicle including a vehicle radio, said system comprising:

an in-vehicle device to collect the vehicle data, and interconnected with athe vehicle;
and

an analysis device to analyze the collected vehicle data and to determine the vehicle service recommendations or the vehicle replacement part recommendations according to the collected vehicle data; and

a communication interface device for data communicating wirelessly with said in-vehicle device, said communication interface device having a data communication connection with ~~a data processing resource~~the analysis device;

wherein said in-vehicle device further comprises at least one of the following:

a vehicle monitor and metering interface for measuring and monitoring said vehicle telemetry data;

a vehicle radio interface for interconnecting said in-vehicle device to ~~said a~~ vehicle radio;

an alarm system interface for monitoring said vehicle security status;

a personal data assistant device interface for enabling data communication communicating between said in-vehicle device and a user ~~personal data assistant device~~;

a user interface including a display, and a microphone for enabling a user to issue voice commands to said in-vehicle device; or

a global positioning receiver interface for determining ~~the a~~ geographic location of said in-vehicle device;

wherein said in-vehicle device ~~by way of~~ via said communication interface device data communicates with said ~~data processing resource~~ analysis device.

20. (Currently Amended) A method of ~~vehicle-servicing~~ a vehicle by utilizing wirelessly communicated vehicle data to determine one or more vehicle service recommendations, or one or more vehicle part recommendations for the vehicle, said method ~~of vehicle-servicing~~ comprising the steps of:

a) receiving ~~a plurality of~~ collected vehicle data from an in-vehicle device, wherein said in-vehicle device is interconnected with ~~said~~ a vehicle;

b) ~~accessing a plurality of data to obtaining~~ diagnostic information related to said vehicle;

c) determining ~~a plurality of the one or more~~ vehicle service recommendations, or a ~~plurality of the one or more~~ vehicle replacement part recommendations for the vehicle according to the collected vehicle data and the diagnostic information; and

d) allowing a user, from said vehicle, to review and to select at least one of said ~~plurality of the one or more~~ vehicle service recommendations, or at least one of said ~~plurality of the one or more~~ vehicle replacement part recommendations;

21. (Currently Amended) The method ~~of vehicle-servicing~~ in accordance with claim 20, further comprising the steps of:

a) receiving a selection from the user for the at least one of the one or more vehicle service recommendations, or the at least one of the one or more vehicle replacement part recommendations; and

b) effectuating an e-commerce or an e-business transaction to place an order for said user-selected said plurality of vehicle service recommendations, or to place an order for said user-selected said plurality of vehicle replacement part recommendations; and

b) confirming said e-commerce; or said e-business order placement.

22. (Currently Amended) The method of ~~vehicle servicing~~ in accordance with claim 21, wherein the step of confirming said e-commerce, or said e-business order further comprises the step of:

a) charging a ~~plurality of~~ one or more fees for transacting said e-commerce, or said e-business transaction.

23. (Currently Amended) A method of ~~vehicle servicing a vehicle including determining vehicle service recommendations, or determining vehicle replacement part recommendations~~, said method of ~~vehicle servicing~~ comprising the steps of:

a) monitoring a ~~plurality of~~ vehicle data associated with a ~~the~~ vehicle, said ~~plurality of~~ vehicle data being data communicated wirelessly between an in-vehicle device located in said vehicle and a communication interface device;

b) analyzing said ~~plurality of~~ monitored vehicle data;

c) ~~accessing a plurality of data to obtaining~~ diagnostic information related to a ~~determining determination of one or more a plurality of~~ vehicle service recommendations; or a ~~plurality of~~ one or more vehicle replacement part recommendations;

d) determining said one or more ~~plurality of~~ vehicle service recommendations; or said ~~plurality of~~ one or more vehicle replacement part recommendations according to the analyzed vehicle data and the diagnostic information;

e) presenting said determined one or more vehicle service recommendations or said one or more vehicle replacement part recommendations ~~analysis~~ to at least one of the following: a mechanic, a customer, a user, a manufacture, a service center, an auto part merchant, an appropriate plurality of agents, or an appropriate plurality of agencies; and

f) allowing said user, from said vehicle, to review and to select at least one of said ~~plurality of~~ one or more vehicle service recommendations, or to review and to select at least one of said ~~plurality of~~ one or more vehicle replacement part recommendations.

24. (Currently Amended) The method of vehicle servicing in accordance with claim 23, further comprising the steps of:

a) receiving a selection from the user for the at least one of said one or more vehicle service recommendations, or the at least one of said one or more vehicle replacement part recommendations;

b) effectuating an e-commerce or an e-business transaction to place an order for said user-selected said plurality of vehicle service recommendations, or place an order for said user-selected said plurality of vehicle replacement part recommendations; and

bc) confirming said e-commerce, or said e-business order placement.

25. (Currently Amended) The method of vehicle servicing in accordance with claim 24, wherein the step of confirming said e-commerce, ~~or said e-commerce,~~ or said e-business order placement further comprises the step of:

a) charging a plurality of one or more fees for transacting said e-commerce, or said e-business transaction.

26. (Currently Amended) A method of performing remote vehicle diagnostics for a vehicle, comprising the steps of:

a) receiving data at a communication interface device ~~a plurality of data,~~ said ~~plurality of data~~ being data communicated by an in-vehicle device located in at the vehicle, or data communicated by a programmable storage device carried by a user;

b) communicating said ~~plurality of data~~ from said communication interface device to a remote location ~~by way of~~ via a global network;

c) analyzing said ~~plurality of data~~ at said remote location;

d) accessing ~~a plurality of~~ one or more of data processing resources to obtain diagnostic information related to a determination of one or more ~~determining a plurality of vehicle~~

service recommendations, ~~and/or~~ and/or a determination of determining a one or more plurality of vehicle replacement part recommendations;

e) determining said ~~one or more plurality of vehicle service recommendations, and~~ and/or said one or more plurality of vehicle replacement part recommendations according to the analyzed data and the diagnostic information; and

f) allowing said user, from said vehicle, to review ~~and/or~~ to select at least one of said ~~plurality of one or more vehicle service recommendations, and/or~~ and/or to review and/or to select at least one of said ~~plurality of one or more vehicle replacement part recommendations.~~

27. (Currently Amended) The method of performing remote vehicle diagnostics in accordance with claim 26, further comprising the steps of:

a) receiving a selection from the user for the at least one of the one or more vehicle service recommendations and/or the at least one of the one or more vehicle replacement part recommendations; and

b) effectuating an e-commerce or an e-business transaction by placing an order for said user-selected said plurality of vehicle service recommendations, or by placing an order for said user-selected said plurality of vehicle replacement part recommendations; and

bc) confirming said e-commerce, or said e-business order placement.

28. (Currently Amended) The method of performing remote vehicle diagnostics in accordance with claim 27, wherein the step of confirming said e-commerce or said e-business order further comprises the step of:

charging a plurality of one or more fees for transacting said e-commerce, and/or and/or said e-business transaction.

29. (Currently Amended) The method of performing remote vehicle diagnostics in accordance with claim 26, wherein, said programmable storage device is at least one of the

following: a pocket PC, a personal data assistant, a wireless phone, a pager, an RFID device, a smart card, a magnetic card, a key fob, a key chain, or vehicle key.

30. (New) A system for wirelessly collecting vehicle performance data for a vehicle to provide a vehicle service recommendation and/or a vehicle replacement part recommendation, an analysis device receiving the collected vehicle performance data and determining the vehicle service recommendation and/or the vehicle replacement part recommendation for the vehicle, said system comprising:

an in-vehicle device to collect and to transmit the vehicle performance data to the analysis device; and

a receiving unit to receive and to display the vehicle service recommendation and/or the vehicle replacement part recommendation to a user in the vehicle via the in-vehicle device from the analysis device.

31. (New) A system for analyzing collected vehicle performance data from an in-vehicle device to determine a vehicle service recommendation and/or a vehicle replacement part recommendation to be provided to a user in the vehicle, said system comprising:

an analysis device to analyze the collected vehicle data from the in-vehicle device and to determine the vehicle service recommendation and/or the vehicle replacement part recommendation for the vehicle according to the analyzed vehicle performance data and diagnostic information, corresponding to the vehicle, which relates to the analyzed vehicle performance data; and

a communication interface device data communicating wirelessly with said in-vehicle device, and located external to the vehicle, said communication interface device operatively connecting the analysis device to the in-vehicle device.